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UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

5999977

Link to Claims Section

December 7, 1999

System for terminating multicast channel and data broadcast when at least two second endpoints do not transmit positive acknowledgment message to first endpont

REISSUE:

December 18, 2002 -   Reissue Application filed Ex. Gp.: 2782; Re. S.N. 10/020,515   ,   (O.G. September 24, 2002)

May 28, 2004 -   Reissue Application filed Ex. Gp.: 2157; Re. S.N. 10/857,799   ,   (O.G. August 31, 2004)

May 28, 2004 -   Reissue Application filed Ex. Gp.: 2157; Re. S.N. 10/857,805   ,   (O.G. September 28, 2004)

May 28, 2004 -   Reissue Application filed Ex. Gp.: 2157; Re. S.N. 10/857,806   ,   (O.G. September 7, 2004)

June 1, 2004 -   Reissue Application filed Ex. Gp.: 2153; Re. S.N. 10/857,798   ,   (O.G. August 31, 2004)

September 15, 2008 -   Reissue Application filed, Ex. Gp.: 2614; Re. S.N. 12/210,847   ,   (O.G. October 21, 2008)

April 28, 2009 -   This patent was reissued as Reissue Patent RE 40,704 (O.G. April 28, 2009)   ,

INVENTOR: Riddle, Guy G. - Los Gatos, United States of America (US)

APPL-NO: 987332 (08)

FILED-DATE: December 9, 1997

GRANTED-DATE: December 7, 1999

ASSIGNEE-AT-ISSUE:
Apple Computer, Inc., Cupertino, CALIFORNIA , United States of America (US)

ASSIGNEE-AFTER-ISSUE:
May 29, 2007 - ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS)., APPLE INC., 1 INFINITE LOOP, CUPERTINO, CALIFORNIA, UNITED STATES OF AMERICA (US), 95014, Reel and Frame Number: 019365/0737

CORE TERMS: message, endpoint, capability, byte, join, auxiliary, media, multicast, send, merge, teleconference, broadcast, channel, hello, p-limited, network, tgroup, tbody, row, delimiter, receiver, caller, identifier, transport, newline, video, alphanumeric, user, transmission, transmitted

ENGLISH-ABST:

    A method and apparatus for optimizing transmission of data to a plurality of second endpoints in a system wherein a first endpoint is providing data to the plurality of second endpoints each connected by a point-to-point communication

channels. This may be useful in teleconferencing applications with a plurality of participants (endpoints) or broadcast server applications. The first endpoint activates a multicast communication channel having a first multicast address and commences broadcast of the data over the multicast communication channel. The first endpoint transmits a request message to each of the plurality of second endpoints in order to query each of the second endpoints whether they can receive transmissions broadcast to the first multicast address. Certain of the plurality of second endpoints transmit an acknowledgment message if they can receive transmissions broadcast to the first multicast address, and the first endpoint receives the acknowledgment message. Then, for each acknowledgment message received from certain of the plurality of second endpoints, the first endpoint deactivates the point-to-point communication channel and the certain of the plurality of second endpoints.

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Search: (US5999977)/PN/XPN

Date	Action Taken	
Family member: **US5999977 A**		
Status: Alive		
20081021	US/RF-A [OPP]	REISSUE APPLICATION FILED EFFECTIVE DATE: 20080915
20070529	US/AS-A [NMC]	ASSIGNMENT OWNER: APPLE INC., CALIFORNIA; EFFECTIVE DATE: 20070109 ASSIGNMENT OF ASSIGNORS INTEREST;ASSIGNOR:APPLE COMPUTER, INC., A CALIFORNIA CORPORATION;REEL/FRAME:019365/0737
20040928	US/RF-A [OPP]	REISSUE APPLICATION FILED EFFECTIVE DATE: 20040528
20040907	US/RF-A [OPP]	REISSUE APPLICATION FILED EFFECTIVE DATE: 20040528
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20040831	US/RF-A [OPP]	REISSUE APPLICATION FILED EFFECTIVE DATE: 20040528
20020924	US/RF-A [OPP]	REISSUE APPLICATION FILED EFFECTIVE DATE: 20021218
19991207	US-A [POS; EXM]	Patent US5999977 A 19991207 [US5999977]
19971209	US-API [POS; EXM]	FILING DETAILS US98733297 19971209 [1997US-0987332]

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